

Deburring Machine Technical Acceptance Checklist

Inspection Item	Technical Requirement	Acceptance Method
Machine Appearance	No deformation, cracks, rust; paint uniform	Visual inspection
Frame Structure	Welds smooth; no defects; rigidity meets design	Visual
Abrasive Belt System	Belt tracking stable; no slipping	Running test
Roller Brush (Deburring)	No broken bristles; uniform rotation	Visual + running test
Scotch-Brite Brush	No fiber shedding; surface uniform	Visual
Abrasive Belt Tension	Tension meets design value	Gauge reading
Conveyor Belt	No tearing; stable speed; no deviation	Visual + running test
Conveyor Drive System	Chain/belt transmission smooth; no abnormal noise	Running test
Pressure Rollers	Rubber coating intact; no aging or delamination	Visual
Pressure Roller Bearings	No vibration	Running test
Deburring Quality	Burr removal meets specification; edges smooth	Sample inspection
Edge Rounding Quality	Rounding radius meets contract requirement	Sample measurement
Workpiece Surface Quality	No scratches or damage	Visual
Thickness Range Capability	Meets specified range	Test with sample material
Width Range Capability	Meets specified range	Test with sample material
Feeding Speed	Meets design value	Speed measurement
Motor Performance	No abnormal noise; current within rated value	Running test
Gearbox	No leakage; smooth transmission	Visual + running test
Coupling	No cracks; elastomer intact	Visual
Dust Collection System	Suction volume meets design; no blockage	Airflow test
Dust Filter Cartridge	Pressure drop within normal range	Gauge reading
Dust Extraction Hose	No cracks; no air leakage	Visual
Electrical Cabinet	Wiring neat; labels complete	Visual
PLC & HMI	All functions operate correctly	Functional test
Sensors	Proximity/photoelectric sensors respond correctly	Functional test
Emergency Stop	All E-stop buttons functional	Functional test
Safety Guards	Installed; no missing parts	Visual
Noise Level	≤ 85 dB (or per contract)	Noise meter
Lubrication System	Oil/grease supply normal	Visual + running test
Tools & Accessories	Delivered per packing list	Checklist
Technical Documents	Manuals, electrical drawings, maintenance guide	Document check
Spare Parts	Delivered per contract	Checklist
Final Acceptance	Meets all technical requirements	Comprehensive review